INDEX.

Circular to Gas Companies.

Advance in the Price of Gas, An, 262
Aitken, Mr., on the Influence of Aqueous Vapour on Illuminating Gas, 790
Alliance and Dublin Gas Company, 461, 509, 550
Amalgamation of the Melbourne Gas Companies, 10
Amalgamation, Revived Feeling in Favour of, 190
Amalgamation, The Desirability of, 421
American Gas Supply, Statistics of, 670
Ammoniacal Liquor, Value of, at Bradford, 590
Auction Clauses in Gas Bills, 790
Auditor, Appointment of an Official, at Liverpool, 942
Average Meter System in St. George's, Hanover Square, 343
Bangor Gas Works, Sale of the, 462
Bangor Gas Works, Threatened Compulsory Purchase of the, 82
Bangor Gas Works—Withdrawal of the Company's Bill, and Sale of the Undertaking to the Local Board, 381
Bilston Gas Company, 82
Birmingham Corporation Gas Accounts and the Application of Profits, 382, 462
Birmingham, Discontent at, 749
Birmingham, Exhibition of Gas Apparatus at, 421, 629, 865, 905, 942
Birmingham, Unwise Economy in Public Lighting at, 789
Blackburn Gas Company, The Final Accounts of the, 382
Blackburn Gas Works, Transfer of the, 10
Board of Trade, The, and the Metropolitan Board of Works, 461
Bradford, Agitation for a Reduction in Price of Gas at, 865
Brading Harbour District Gas Bill, 381
Bray, Mr., on Cannel Gas Burners, 10
Brighton Industrial Schools, Gas Supply to the, 941
Brighton Gas Works, Proposed Acquisition of the, by the Corporation of, 710
Brighton, The Gas Explosion at, 422
Brighton Town Council, The, and the Gas Companies, 789
British Association of Gas Managers, Affairs of the, 342, 422
British Association of Gas Managers, Mr. Anderson on the, 303
British Association of Gas Managers, Mr. Spice on the, 383
British Association of Gas Managers, Meeting of the, 866, 977
British Association of Gas Managers—The President's Address, 977
Burghs (Scotland) Gas Supply Act at North Berwick, 10
Burton-on-Trent, Complaints at, 46
Cannel Gas Burners, Mr. Bray on, 10
Cannel Gas Supply, Discontinuance of, by the London Gas Company, 262
Chelsea Vestry, The, and the London Gas Company, 81, 341, 749, 906
Chesterfield Gas and Water Company, Meeting of the, 382
Chief Gas Examiner, The, Quarterly Reports of, 81, 590
City of London, Public Lighting in the, 509
Clitheroe Gas Works, Purchase of the, 82
Colchester, Discontent at, 153
Coming Municipality for London, The, 669, 709
Commercial Gas Company, Meeting of the, 550
Commercial Gas Works, Reported Nuisance at the, 118, 789
Commissions, 906
Cork Consumers Gas Company, Meeting of the, 262, 303
Corporation Gas Managers Salaries, Increase of, 906
Corporations and their Gas Officials, 977
Crystal Palace District Gas Company, Report of the, 421
Derby Corporation, The, and the Gas Company 509
Devonshire, Dissatisfaction in, 226
Dover Gas Company, Meeting of the, 382
Droitwich Gas Works, Purchase of the, 302
Dublin Corporation, The, and their Creditors, 45
Dublin Gas Company, The, 461, 509, 550
Dumfries Gas Works, Purchase of the, 302
Duty, to Supply Gas, The, 629
Economic Use of Coal Gas, Mr. M'Crae on the, 302
Electric Lighting at Home and Abroad, 942
Electric Lighting at Liverpool, Proposed, 669
Electric Light, The, 154
Electric Light in Paris, The, Finance of the, 630
Electric Light in the City of London, The, 422, 709, 749
Elland Local Board, The, and the Gas Company, 302
Excursions to Paris, 905
Exeter Gas Bill, Corporation Opposition to the, 262
Exeter Gas Company in Parliament, 381
Exeter Gas Works, Proposed Transfer of the, 422, 462
Exhibition of Gas Apparatus at Birmingham, 421, 629, 865, 905, 942
Exhibition of the Paris Gas Company, 941
Exhibition, Proposed, of Gas Apparatus, 154
Exhibitions, The Use of, 905
Farnworth, Complaints at, 118
Featherstone, Gas Affairs at, 118
Gas Bills of the Session, The, 153
Gas Examination in the Metropolis, 226
Gas Fittings, The Hire of, at Sheerness, 303
Gaslight and Coke Company, Half Yearly Meeting of The, 261
Gaslight and Coke Company, Prosecution of The, 45
Gaslight and Coke Company, Report and Accounts of The, 225
Gas Purchase Bills of the Session, 117
Gas Referees, Summer Instructions of the, 510
Gas Shares, Sale of, at Swansea, 550
Gas Works Clauses Act, Proposed Amendment of the, 189, 301, 341, 421
Gas Works Clauses Act, The Pressure Test in the Amendment Bill, 865
Glossop Gas Company, The, and the Corporation, 81
Government, The, and the Metropolis and Gas Water Questions, 549
Harrogate, Sale of Gas Shares at, 343
Harrow Gas Company, Meeting of the, 422
Hastings, Gas Affairs at, 10, 46, 153, 342, 422, 589, 710
Hastings Gas Company, Meeting of the, 382
Hereford Gas Works, Proposed Extension of the, 303, 382
Hereford, New Gas Works at, 589
Hindley, Gas Affairs at, 422
How Complaints are got up, 865
Ilkeston Local Board, The, and the Gas Company, 422
Illuminating Power, A New Standard of, 45
Illuminating Power of Gas, Prosecution for Deficiency of, 9
Imperial Water and Gas Corporation, Limited, The, 422, 462
Influence of Aqueous Vapour on Illuminating Gas, Mr. Aitken on the, 790
Investigations in Gas Manufacture, Necessity for, 829
Ipswich, Complaints at, 46
Ipswich, Gas Testing at, 670
Kelso, Complaints at, 510
King's Treatise on Gas Lighting, Completion of the First Volume of, 670
Lea Bridge District Gas Company's Bill, 589
Leamington, Reduction in the Price of Gas at, 510
Leeds, Complaints at, 118
Leicester, Appointment of a Gas Committee for the Town of, 709
Leicester Gas Company, Dividends of the, 629
Leicester Gas Company, Meeting of the, 342
Lichfield Gas Bill, Success of the, 422
Lighting and Extinguishing Public Lamps by Electricity, 10, 590
Lighting Railway Carriages, 118
Lighting Table, Sugg's, 82
Liverpool United Gas Company, Appointment of an Official Auditor of the Accounts of the, 942
Liverpool United Gas Company, Meeting of the, 301
London Gas Company, The, and the Chelsea Vestry, 81, 341, 749, 906
London Gas Company, Half Yearly Meeting of the, 549
London Gas Company, Report of the, 461
Maidstone, Extension of Purifying Plant at, 190
Manchester District Institution of Gas Engineers, Meeting of the, 342
M'Crae, Mr., on the Economical Use of Coal Gas, 302
Melbourne Gas Companies, Amalgamation of the, 10
Metropolis Gas Shares, Fluctuation in the Value of, 509
Metropolitan Board of Works, The Annual Report of the, 941
Metropolitan Board of Works, The Shylocks of the, 381
Metropolitan Board of Works, The—What will they do next? 590
Metropolitan Gas and Water Companies, The Fate of the, 629
Michael, Mr. W. H., a Q.C., 630
Midland Gas Managers Association, Meeting of the, 81
Midland Gas Managers Association, President's Address, 118
Mitcham, Gas Affairs at, 630
Necessity for Investigations in Gas Manufacture, 829
Newbury, Discontent at, 82
Newry Gas Works, Sale of the, 510
New Standard, A, of Illuminating Power, 45
New York, A Gas Regulations Bill in, 789
Non-Vitiation of Air by the Combustion of Coal Gas, 978
North Berwick, Burghs (Scotland) Gas Supply Act at, 10
North of England Gas Managers Association, Meeting of the, 670, 710
Oxyhydrogen and Carburetted Hydrogen Gases, 829
Paris Gas Company, Annual Report of the, 749
Parry, Mr., Retirement of, 189
Patterson's, Mr., Final Appeal, 9
Pattinson, Mr., and Sulphur Tests, 865
Peterborough Gas Company, The Accounts of the, 262
Phœnix Gas Company, Half Yearly Meeting of the, 549
Phœnix Gas Company, Report of the, 461
Plymouth, False Accusations at, 669
Plymouth, Reduction in the Price of Gas at, 510
Portsea Island Gas Company, Abortive Proceeding against the, 462
Pressure Test in the Gas Works Clauses Act Amendment Bill, 865
Preston, Complaints at, 46
Preston Gas Company, The Accounts of the, 629
Prosecution for Deficiency of Illuminating Power, 9
Provincial Gas Companies, Half Yearly Meetings of, 302, 343, 382, 422
Public Lighting in the City of London, 509
Public Lighting, Unwise Economy in, at Birmingham, 789
Purification of Gas in Closed Vessels, 82
Quaglio's Process for the Removal of Sulphur Compounds, 670
Quarterly Report of the Chief Gas Examiner, 81, 590
Radcliffe and Pilkington Gas Bill, Opposition to the, 10
Ramsgate Gas and Water Undertakings, Completion of the Purchase of the, 153
Reading Town Council, The, and the Gas Company, 550
Regeneration of Lime, The, 342
Richmond Public Lighting, 789
Richmond (Yorks), Gas Affairs at, 462
Rochdale Corporation Gas Accounts, 789, 978
Rochdale Corporation Gas Works, Proposed Extension of the, 46
Rochdale, Gas Affairs at, 710
Rotherham Gas Works, Proposed Removal of the, 710
Sales of Gas Act, Proposed Amendment of the, 189
Salford Corporation Gas Accounts, 342
Sewage Gas Again, 750
Sewage Gas at Worcester, 905
Sheerness, Hire of Gas Fittings at, 303
Sheerness, Public Lighting at, 226
Sheffield United Gas Company, Affairs of the, 749
Sheffield United Gas Company, Half Yearly Meeting of the, 589
Sheffield United Gas Company, Report of the, 461
Sheppy Gas Company, Report of the, 462
Shrewsbury Gas Company, Issue of New Capital by Auction, 790
Smethwick, Loan for the Gas Supply of, 630
Southern District Association of Gas Managers, 303
South Metropolitan Gas Company, Half Yearly Meeting of the, 589
South Metropolitan Gas Company, Report of the, 461
Southport, Gas Explosion at, 82

South Shields, Price of Gas at, 302
Stafford Gas-Works, Purchase of the, 382, 790, 942, 978
Stockton, Exhibition of Gas Apparatus at, 629
Stratford-on-Avon Gas Works, Sale of the, 342, 382
Sugg and Evans's Patent for the Purification of Gas, 670
Sugg's Lighting Tables, 82
Surrey Consumers Gas Company, Report of the, 509
Swansea Corporation, The, and the Gas Company, 750
Temperature of Gas in Ascension Pipes, 829, 865
Torquay, Gas Affairs at, 82
Torquay Gas Bill, Withdrawal of the Opposition to the, 381
Treatise on Gas Lighting, Completion of the First Volume of King's, 670
Tunbridge Wells, New Gas Works at, 669
Warrington, Gas Profits at, 262
Water Gas at Worcester, 550
Water Gas for Heating Purposes, 670
Water Gas for the Metropolis, 709
Water Gas in America, 10, 550
Weights and Measures Act, Proposed Amendment of the, 226, 301
West Ham Gas Company, Half Yearly Accounts of the, 342
West of Scotland Gas Managers Association, Annual Report of the, 510
West of Scotland Gas Managers Association, Meeting of the, 670, 790
Weymouth, Alleged Nuisance at, 942
Weymouth, The British Workman at, 154
What Directors may Learn in the French Capital, 941
White's Automatic Valve, 829
Whittington Gas Works, Close of the Negotiations for the Purchase of the, 942
Whitwood, Gas Affairs at, 117
Wigan Corporation, Conviction of the, for not Filing Accounts, 590
Wigan Corporation, Gas Accounts of the, 382, 422, 462, 550, 669, 709
Wigan Gas Works, The—"A Revelation," 301
Wimbledon, Gas Affairs at, 630
Winchester, Public Lighting at, 790
Wonderful Discovery, A—Gas from Steam and Steam from Gas, 342
Worcester, Gas Affairs at, 9, 46, 226, 510
Worcester, Water Gas at, 550
Woodhouse, Price of Gas at, 382
York Corporation, The, and the Gas Company, 189, 226, 301, 341, 381, 422
York Gas Company's Bill, 510
Young, Mr., on an Easy Method of Determining Sulphur in Gas, 154

Water and Sanitary Notes.

Abandonment of the Metropolis Water Bills, 750, 830
Angell, Mr. Lewis, on the Metropolis Water Supply, 119
Assessment of the Brighton Corporation Water Works, 670
Auction Clauses in Water Bills, 831
Auction Clauses, Rejection of, in the Southport Water Bill, 866
Award in the Stockton and Middlesbrough Water Arbitration, The, 590, 630, 671, 710, 791
Brighton Corporation Water Works, Assessment of the, 670
Brighton Corporation Water Works, Profits of the, and their Application, 303
Bristol Water Works Company, 423, 591
Burnley Sewage—The Cement Process, 906, 942
Camperdown's, Earl, Bill for a Metropolitan Muncipality, 46
Cardiff Water Bill, Lord Redesdale and the, 906
Cardiff Water Company, Proposed Purchase of the, 423
Cement (Sewage) Process, The, at Burnley, 906, 942
Chancellor of the Exchequer, The, on Local Indebtedness, 551
Colchester, Water and Gas Affairs at, 227
County Government Bill, The, 304
Derby Water Company, Meeting of the, 383
Disposal of Thames Sewage, The, 47
Donaldson, Mr., on the Purification of Sewage, 906
Durham Water Bill, Opposition to the, 978
Durham Water Bill, Re-committal of the, 866
Earth Closet System, The, 47
Exeter, A Water Job at, 83
Exeter, How Money is Squandered at, 227
Frankland, Dr.—An Examination of his Figures on the London Water Supply, 344
Frankland, Dr., on the Quality of London Water, 262
Frankland, Dr., on the Supply of Water to the Metropolis in 1877, 462
Health of the Metropolis, The, 978
Henley-on-Thames, Water Supply of, 907
Heywood, Water Purchase at, 46
Hucknall Torkard Local Board and the Nottingham Water Company, 943
Hydrants in the City of London, Success of, 83
Ilkeston, Disposal of Sewage and Water Works Purchase at, 423
Lambeth, Increased Water Charges in, 671
Lambeth Water Company, Meeting of the, 831
Lancashire and West Yorkshire, Water Supply of 119
Liverpool Land and House Owners Association and the Public Health Bill, 906
Liverpool Water Supply and the Severn Conservancy Board, 790, 942
Liverpool Water Supply—Deepening of the Bootle Wells, 462
Liverpool Water Supply—Proposed Supply from Thirlmere, 710
Liverpool Water Supply—The Welsh Scheme of the Corporation, 11
Local Death Rates, 190
Local Indebtedness, The Chancellor of the Exchequer on, 551
Loch Katrine Water, Quality of the, 591
London Water Supply, A Pamphlet on the, 550
Manchester and Liverpool Fire Brigades, 750
Manchester Water Supply — The Thirlmere Scheme, 11, 82, 119, 154, 190, 262, 303, 383, 462, 510, 710, 750, 831, 866, 906
Metropolis Water Supply, Deputation from Vestries to the Local Government Board upon, 383
Metropolis Water Supply, Mr. Lewis Angell on the, 119
Metropolis Water Supply, (New Works) Bill, 154, 227, 790
Metropolis Water Works Purchase Bill, 118, 154, 227, 383, 422, 462, 510, 550, 750, 790, 830
Metropolis Water Works Purchase Bill, The Government and the, 590, 750, 830
Metropolitan Board of Works, The, and the London Vestries, 262
Metropolitan Board of Works, The, and the State of the Thames, 630
Metropolitan Board of Works, The, and the Thames Floods Prevention Bills, 790
Metropolitan Board of Works, The, and the Water Supply of London, 46
Metropolitan Fire Brigade, Captain Shaw's Annual Report on the, 119
Metropolitan Municipality, Lord Camperdown's Bill for a, 46
Metropolitan Water and Municipal Question, 630
Metropolitan Water Companies, Deputation of the, to the Local Government Board, 343
Municipal Reform in London, 10
National Water Supply, Conference on the, 830
National Water Supply, The Prince of Wales's Letter on the, 262
National Water Supply, The Society of Arts and the, 510
New River Company, The, and the Parish of Islington, 304
Norton, Lord, and the Birmingham Sewage Question, 791
Nottingham Water Bill, 907, 511
Paddington Vestry and the Dusting, &c., of the Parish, 11
Parry, Mr., on Water Power, 790
Prevention of Thames Floods, 46
Prevention of Thames Floods, New Bill for the, 670
Prince of Wales, The, on the National Water Supply, 262
Provincial Water Companies, Meetings of, 344
Public Health Act Amendment Bill, 190, 383
Purification of Sewage, Mr. Donaldson on the, 906
Quality of Loch Katrine Water, 591
Quality of London Water, Dr. Frankland on the, 262, 344
Quality of London Water, Dr. Tidy on the, 304
Registrar-General, The, and the Gas and Water Supply of London, 978
Richmond, Water Affairs at, 590
Rivers Pollution Prevention Act in Scotland, 83
Sandringham, Water Supply of, 942
Sanitary Work in the City of London, 510
Scarborough Water Works, Probable Transfer of the, 227
Scott's, General, Sewage Cement, 906
Sevenoaks Water Bill, Withdrawal of the Opposition to the, 304
Sevenoaks Water Company, The, and the Local Board, 83
Sewage, Disposal of, at Ilkeston, 423
Sewage Farming at Reading, 227
Sewage Farming at West Derby, 83
Sewage, Profitable Utilization of, 830
Shaw's, Captain, Annual Report, 119
Shrewsbury Water Works, Sale of the, 304
Southern Health Resorts, The Waters of, 11
South London (Spring Water) Bill, Withdrawal of the, 423
Southport Water Bill, Rejection of Auction Clauses in the, 866
Southwark and Vauxhall Water Company, 942
Stockton and Middlesbrough Water Arbitration, 590, 630, 671, 710, 791
Sulphur Nuisances at Battersea, 978
Thirlmere (Manchester Water Works) Scheme, 11, 82, 119, 154, 190, 262, 303, 383, 462, 510, 710, 750, 831, 866, 906
Thirlmere Scheme, The, and Intermediate Towns, 630
Thirlmere Scheme—Proposed Supply of Water to Liverpool, 710
Tidy, Dr., on the Quality of London Water, 304
Water Power, Mr. Parry on, 790
Water Supply of Urban Districts, Return respecting the, 830
Wigan and the Manchester Corporation, 227
Wigan Water Supply, 978
York Water Company, 227

Leading Articles.

Birmingham Corporation Gas Accounts, 465
Birmingham Exhibition of Gas Apparatus, 907, 943
Board of Trade Report on the Gas and Water Bills of Session 1878, 157
Chimney Shafts and Lightning Conductors (Review), 120
Destructive Distillation (Review), 11
Exhibition of Gas Stoves and Heating Appliances at the Town Hall, Birmingham, 907, 943
Gas and its Use as Fuel, 946
Gas Bills for 1878, 155
Gas Engineers and Superintendents Pocket Almanac for the Year 1878 (Review), 157
Gasholder at the Brighton and Hove Gas Works, 464
Healthy Air (Review), 120
Lighting by Electricity, 49, 85, 120, 157, 192, 265
Lighting of Railway Carriages, 119
Progress of Chemistry (Review), 47, 83
Provisional Orders for 1878, 190
Water Bills for 1878, 227, 263

A Treatise on the Science and Practice of the Manufacture and Distribution of Coal Gas.

(Continued from previous Volumes.)

District Governors, 12, 48, 84
Public Lighting, 121, 194, 263, 305, 384, 423, 511, 631, 711, 751

Communicated Articles.

On a Rapid and Accurate Method of Estimating Sulphur in Coal Gas. By Mr. W. C. Young, F.C.S., &c., 159
Preservation of Iron, The, 980
Water Gas, 831, 908, 943, 979

Correspondence.

Air as Fuel—
Gore, H., 869
J. W., 792
Wilson and Douglas, 834, 947
Aitken and Young's Process—
Key, W., 87
M'Gilchrist, J., 159
Analysis of Australian Shale—King, W., 345
Annual Accounts of Gas Companies—
Ohren, M., 512
Panes, J., 463
Russell, W. J., 463
Anti-Dip Pipes—White, W., 834
Birmingham Corporation Gas Accounts—
Smith, E., 632
Vindex, 512
Birmingham Gas Apparatus Exhibition—Smith, E., 982
British Association of Gas Managers—
Anderson, G., 305
Spice, R. P., 344, 385
Travers, T., 160
Woodall, C., 344
Channel Passage to the Paris Exhibition—Ohren, M., 911
Commissions—
Frith, J. R., 385
Inquirer, 264, 425, 911
Corrections—
Newbigging, T. (The Writer of the "Treatise" Article), 87
Phelps, R., 50, 122
Dublin Gas and Improvement Bills—M'Evoy, J., 87
Effect of Nitrogen on the Temperature of Combustion—Lane, D., 712
Evans and Sugg's Patent—Chemicus, 753
Exeter Gas—Gore, H., 552
Exeter Gas Bill—Spice, R. P., 512
Gas Property, Gas Engineers, and the York Gas Company—
A Gas Shareholder, 424, 512
Woodall, H., 463
Gas Works Clauses Act Amendment Act of 1871—Livesey, W., 751
Gas Works Clauses Bill of 1878—Livesey, W., 344
How is the Pressure of Gas to be Tested?—Heisch, C., 868
How Not to Do It—
A Country Gas Manager, 632
Engineer, 712
Livesey, W., 671, 753, 791
Ohren, M., 671
Stone, T., 712
Hydraulic Lifts for Purifier Covers—
Coates, J., 592
Justice, 672
Reid, J., 592
Wyatt, V., 512
Influence of Washing on Illuminating Power—Aitken, H., 867
Irvine Water Works—Leslie, J. and A., 122
Manchester Corporation, The, and the Thirlmere Scheme—Turner, J. F., 344
Metropolis Water Supply—H. W., 228

Naphthaline—Young, W., 14
Newcastle-on-Tyne, Gas Testing at—
Livesey, G., 834
Pattinson, J., 868
Official Meter Inspectors—Meter, 591
Patterson v. The Gaslight and Coke Company (A Final Appeal)—Patterson, R. H., 13
Portland Cement Concrete—
Chatto, J., 122
Livesey, G., 50
Purification of Gas—Anderson, G., 87
Referees Standard Burner for Testing Cannel Gas—Bray, G., 15
Removal of Sulphur Compounds—Hammond, J., 712, 911
Retort Charging, A Simple Method for—Surl, J., 86
Revivification of Spent Lime—
Hislop, G. R., 552, 947
Owen, E., 512
Rules for Gas Making—
Farmer, W., 712
Gore, H., 632
Q., 551
Sales of Gas Acts—
Gas Manager, 792
Livesey, W., 834, 981
Urquhart, J., 160
Sewage Gas—Collinge, T. A., 947, 982
Stafford Gas Works Purchase—A Country Manager, 982
Stephan's Gases from Sewage, &c.—Stephan, J. A., 868
Stratford-on-Avon Gas Works, Sale of the—Spice, R. P., 344
Supply of Gas to Public Lamps—Brett, R. W., 264
Tar, and the Absorption of Illuminants in Coal Gas—Newbigging, T., 867
Temperature of Gas in Ascension Pipes—
Collinge, T. A., 869, 947
Hunt, C., 833
Newbigging, T., 791, 833, 911
Paterson, R. O., 753, 833
Testings for Illuminating Power and their Difficulties—
Hartley, F. W., 591
Hunt, C., 591
Reid, J., 551, 632
W. L., P. B., 591
Under the Microscope—Anderson, G., 305
Use of Sea Water in Gasholder Tanks—Hall, J., 671
Use of Water as a Motive Power—Parry, J., 868
Waste in Gas Works—Leather, S. P., 834
Water Gas—Mann, W., 753
Who shall Pay the Water Rates?—Aquarius, 551
Wigan Corporation Gas Accounts—Hawkins, J. G., 463

A Country Manager—
How not to Do It, 632
Stafford Gas Works Purchase, 982
A Gas Shareholder—Gas Property, Gas Engineers, and the York Gas Company, 424, 512
Aitken, H.—The Influence of Washing on Illuminating Power, 867
Anderson, G.—
British Association of Gas Managers (Under the Microscope), 305
Purification of Gas, 87
Aquarius—Who shall Pay the Water Rates? 551
Bray, G.—The Referees Standard Burner for Testing Cannel Gas, 15
Brett, R. W.—Supply of Gas to Public Lamps, 264
Chatto, J.—Portland Cement Concrete, 122
Chemicus—Evans and Sugg's Patent, 753
Coates, J.—Hydraulic Lifts for Purifier Covers, 592
Collinge, T. A.—
Sewage Gas, 947, 982
The Temperature of Gas in Ascension Pipes, 869, 947
Engineer—How Not to Do It, 712
Farmer, W.—Rules for Gas Making, 712
Frith, J. R.—Commissions, 385
Gas Manager—Sales of Gas Acts, 792
Gore H.—
Air as Fuel, 869
Exeter Gas, 552
Rules for Gas Making, 632
H. W.—Metropolis Water Supply, 228
Hall, J.—The Use of Sea Water in Gasholder Tanks, 671
Hammond, J.—Removal of Sulphur Compounds, 712, 911
Hartley, F. W.—Testings for Illuminating Power and their Difficulties, 591
Hawkins, J. G.—Wigan Corporation Gas Accounts, 463
Heisch, C.—How is the Pressure of Gas to be Tested? 868
Hislop, G. R.—Revivification of Spent Lime, 552, 947
Hunt, C.—
Temperature of Gas in Ascension Pipes, 833
Testings for Illuminating Power and their Difficulties, 591
Inquirer—Commissions, 264, 425, 911
J. W.—Air as Fuel, 792
Justice—Hydraulic Lifts for Purifier Covers, 672
Key, W.—Aitken and Young's Process, 87
King, W.—Analysis of Australian Shale, 345
Lane, D.—The Effect of Nitrogen on the Temperature of Combustion, 712
Leather, S. P.—Waste in Gas-Works, 834
Leslie, J. and A.—Irvine Water Works, 122
Livesey, G.—
Gas Testing at Newcastle-on-Tyne, 834
Portland Cement Concrete, 50
Livesey, W.—
Gas Works Clauses Act Amendment Act of 1871, 751
Gas Works Clauses Bill of 1878, 344
How Not to Do It, 671, 753, 791
Sales of Gas Acts, 834, 981
Mann, W.—Water Gas, 753
Meter—Official Meter Inspectors, 591
M'Evoy, J.—Dublin Gas and Improvement Bills, 87
M'Gilchrist, J.—Aitken and Young's Process, 159
Newbigging, T.—
Corrections, 87
Tar, and the Absorption of Illuminants in Coal Gas, 867
Temperature of Gas in Ascension Pipes, 791, 833, 911
Ohren, M.—
Annual Accounts of Gas Companies, 512
How Not to Do It, 671
The Channel Passage to the Paris Exhibition, 911
Owen, E.—Revivification of Spent Lime, 512
Panes, J.—Annual Accounts of Gas Companies, 463
Parry, J.—Use of Water as a Motive Power, 868
Paterson, R. O.—Temperature of Gas in Ascension Pipes, 753, 833
Patterson, R. H.—Patterson v. The Gaslight and Coke Company (A Final Appeal), 13
Pattinson, J.—Gas Testing at Newcastle-on-Tyne, 868
Phelps, R.—Corrections, 50, 122
Q.—Rules for Gas Making, 551
Reid, J.—
Hydraulic Lifts for Purifier Covers, 592
Testings for Illuminating Power and their Difficulties, 551, 632
Russell, W. J.—Annual Accounts of Gas Companies, 463
Smith, E.—
Birmingham Corporation Gas Accounts, 632
Birmingham Gas Apparatus Exhibition, 982
Spice, R. P.—
British Association of Gas Managers, 344, 385
Exeter Gas Bill, 512
Sale of the Stratford-on-Avon Gas Works, 344
Stephan, J. A.—Stephan's Gases from Sewage, &c., 868
Stone, T.—How Not to Do It, 712
Surl, T.—A Simple Method for Charging Retorts, 86
Travers, T.—British Association of Gas Managers, 160
Turner, J. F.—The Manchester Corporation and the Thirlmere Scheme, 344
Urquhart, J.—Sales of Gas Acts, 160
Vindex—Birmingham Corporation Gas Accounts, 512
W. L., P. B.—Testings for Illuminating Power and their Difficulties, 591
White, W.—Anti-Dip Pipes, 834
Wilson and Douglas—Air as Fuel, 834, 947
Woodall, C.—British Association of Gas Managers, 344
Woodall, H.—Gas Property, Gas Engineers, and the York Gas Company, 463
Wyatt, V.—Hydraulic Lifts for Purifier Covers, 512
Young, W.—Naphthaline, 14

Parliamentary Intelligence.

House of Lords—
Conservancy Boards, 160
Public Health Act (1875) Amendment Bill, 870, 911, 983
House of Lords Committees—
Castleford and Whitwood Gas Bill, 633
Exeter Gas Bill, 466
House of Commons—
Dublin Corporation Water Works Acts Amendment Bill, 552
Local Government and Taxation in London, 428, 553
Manchester Corporation Water Bill, 267
Manchester Corporation Water Bill and the Water Supply of Lancashire and Yorkshire, 197
Metropolis Water Supply, 385, 593
Metropolis Water Works (Purchase) Bill, 197, 425, 553, 592, 754, 835
Newry Gas Bill, 912
Pollution of Rivers, 754
Tredegar Water and Gas Bill, 552
Urban Water Supply, 835
House of Commons Committees—
Bangor Local Board Bill—Bangor Water and Gas Bill, 472
Cheltenham Corporation Water Bill—Cheltenham Water Bill, 513, 554, 594, 638, 675, 713, 754
Grand Junction Water Bill, 870
Lea Bridge District Gas Bill, 635, 672
Manchester Corporation Water Bill (Report), 593
House of Commons Committees—
Nottingham Water Bill—Nottingham Improvement, Gas, and Water Bill, 793, 835, 875, 912
Public Health Act (1875) Amendment Bill (Report), 914
Radcliffe and Pilkington Gas Bill, 795
West Houghton Local Board Bill, 515
York United Gas Bill, 796

Gas and Water Bills, 88, 122, 160
Progress of Bills in the House of Lords, 122, 160, 197, 229, 267, 307, 345, 385, 425, 466, 513, 552, 592, 632, 793, 835, 870, 911, 982
Progress of Bills in the House of Commons, 122, 160, 197, 229, 267, 307, 345, 385, 425, 466, 513, 552, 592, 632, 754, 793, 835, 870, 912, 948, 983

Legal Intelligence.

Bacup Petty Sessions—Non-Payment of Lighting Rates, 16
Belfast Police Court—Illegal Connection of Gas Pipes, 197
Brigg Petty Sessions—Conviction for Non-Payment of Gas Rate, 51
Brighton Police Court—Brighton Corporation v. Cowell, 598
Brompton County Court—Labourers and their Wages, 598
Cardiff Borough Police Court—Failure of a Prosecution of a Gas Company for an Alleged Deficiency in Illuminating Power of Gas Supplied, 16
Clerkenwell County Court—
New River Company v. Kendrick, 161
New River Company v. Prout, 161
Darlington County Court—Croft and Hurworth Gas Company v. Pryor, 386
Darwen Petty Sessions—Conviction for Breach of the Water Works Clauses Act of 1863, 88
East Sussex Quarter Sessions—Brighton Corporation, *Appellants*, v. The Guardians of the Poor of the Steyning Union, *Respondents*, 677
Edinburgh Police Court—Dispute as to Lighting a Common Stair, 386
Essex Lent Assizes—Walker v. The Gaslight and Coke Company, 473
Glossop Petty Sessions—Action to Recover Costs of Repairing Roads after Main Laying, 88
Greenwich Police Court—
Conviction of Stokers for Neglecting Work, 89
Illegal Connection of a Meter, 600
High Court of Justice—
Chancery Division—
Attorney-General v. The Walthamstow Local Board, 519
Bose v. Woodford Local Board, 473
Flowers v. Low Leyton Local Board, 519
Glossop v. Heston and Isleworth Local Board, 516, 916
Hagg v. Allcock, 348
Hagg v. Darley, 519
Hirst v. Longwood Gas Company, 518, 596
Houghton-le-Spring Gas Company, *In re* the, 428
Hunt v. Stevens, 519
Leamington Corporation v. Oldham, 345
Common Pleas Division—Walker v. The Gaslight and Coke Company, 715, 984
Queen's Bench Division—The Queen, on the Prosecution of the Board of Works for the Wandsworth District, v. Wallace, 983
House of Lords—Hope v. Romford Local Board of Health, 230
Lambeth Police Court—
Alleged Fraudulent Connection of Pipes, 271
Illegal Consumption of Gas, 474
Leaving Work without Notice, 271
Leeds Police Court—
Conviction for Wasting Water, 715
Removing Water Pipes without Permission, 386
Portsmouth Borough Court—Prosecution of a Gas Company for Supplying Gas of Deficient Illuminating Power, 473
Southwark Police Court—
Jones v. Southwark and Vauxhall Water Company, 433
Ladbury v. Southwark and Vauxhall Water Company, 431
Shaw v. Southwark and Vauxhall Water Company, 599
Staffordshire Spring Assizes—Turner v. Hednesford Gas Company, 597
Supreme Court of Judicature—Court of Appeal—Turner v. Hednesford Gas Company, 307
Surrey Assizes, Kingston—
The Queen, on the Prosecution of the Board of Works for the Wandsworth District, v. Wallace—The same v. The Alum and Ammonia Company, Limited, 555
Watts v. West Surrey Water Company, 598
Surrey County Bench—Security for Gas Rates, 599
Sussex Spring Assizes—Pocock v. Brighton Corporation, 429
Wandsworth Police Court—The Inconvenience of Partnership Arrangements in Water Supply, 475
Westminster General Assessment Sessions—New River Company, *Appellants*, v. Parish of St. Mary, Islington, *Respondents*, 307

Weymouth Police Court—
Conviction for Neglecting Work, 51
Intimidation of Gas Workmen, 161
Wigan Borough Police Court—Templeton *v.* The Wigan Corporation, 640
Wimborne County Court—Blake *v.* The Wimborne Gas Company, 948
Worship Street Police Court—Metropolitan Board of Works *v.* The Gaslight and Coke Company, 50

Meetings of Companies.

Abersychan Gas Company, 592
Alford Gas Company, 425
Alliance and Dublin Consumers Gas Company, 566
Bahia Gas Company, 878
Barnet District Gas and Water Company, 351
Barnsley Gas Company, 353
Belper Gas Company, 399
Bilston Gas Company, 93
Bishop Auckland District Gas Company, 437
Bodmin Gas Company, 239
Bodmin Water Company, 434
Bombay Gas Company, 838
Boston Water Company, 202
Brighton Gas Company, 388
Brisbane (Queensland) Gas Company, 988
Bristol United Gas Company, 435
Bristol Water Company, 644
Broadstairs Water Company, 202
Bromsgrove Gas Company, 320
Bromyard Gas Company, 391
Broseley Gas Company, 344
Brynmawr and Abertillery Gas and Water Company, 399
Burgess Hill Gas Company, 918
Bury St. Edmund's Gas Company, 304
Cagliari Gas and Water Company, 520
Camborne Water Company, 486
Cambridge University and Town Gas Company, 199
Cambridge University and TownWater Company, 200
Canterbury Gas and Water Company, 354
Cardiff Gas Company, 485
Chatham and Rochester Water Company, 357
Chesterfield Water and Gas Company, 486
Chichester Water Company, 399
Christchurch (New Zealand) Gas Company, 840
Cleveland Water Company, 193
Colchester Gas Company, 425
Collingwood (Australia) Gas Company, 477, 525
Colne Gas Company, 800
Colne Valley Water Company, 395
Commercial Gas Company, 560
Consett Water Company, 437
Cork Consumers Gas Company, 309
Croft Gas Company, 240
Crystal Palace District Gas Company, 476
Cuckfield Gas Company, 392
Dartmouth Gas Company, 511
Derby Gas Company, 437
Derby Water Company, 396
Douglas (Isle of Man) Gas Company, 383
Dover Gas Company, 392
Dronfield Gas Company, 881
East Ardsley Gas Company, 399
Eastbourne Gas Company, 393
East London Water Company, 567
Eckington Water Company, 239
European Gas Company, 125
Farnworth and Kearsley Gas Company, 726
Faversham Water Company, 164, 384
Ferndale Gas Company, 394
Fylde Water Company, 604
Gaslight and Coke Company, The (Chartered), 273
Georgetown (British Guiana) Gas Company, 759
Godalming Water Company, 726
Grantham Gas Company, 320
Grantham Water Company, 400
Hadleigh Gas Company, 710
Halesowen Gas Company, 486
Handsworth Woodhouse Gas Company, 193
Harrow District Gas Company, 434
Hartlepool Gas and Water Company, 954
Hastings and St. Leonards Gas Company, 435
Hengoed Gas and Water Company, 988
Howden Gas Company, 397
Ilfracombe Gas Company, 434
Imperial Continental Gas Association, 202, 877
Ipswich Gas Company, 308
Keynsham Gas Company, 525
Kibworth Gas Company, 918
King's Lynn Gas Company, 357
Kirby Moorside Gas and Water Company, 228
Lambeth Water Company, 843
Leamington Priors Gas Company, 525
Leicester Gas Company, 391, 726
Leicester Water Company, 356, 792
Leominster Gas Company, 357
Limerick Gas Company, 239, 525
Liverpool Gas Fittings Company, 881
Liverpool United Gas Company, 310
Llynvi Valley Gas Company, 320
London Gas Company, 558
Longridge Gas Company, 437
Longton Gas Company, 393
Looe Gas Company, 308
Luton Water Company, 388
Lutterworth Gas Company, 918
Maidstone Water Company, 437
Margate Water Company, 166
Mauritius Gas Company, 716
Melton Mowbray Gas Company, 320
Mexborough Water Company, 228
Mold Gas and Water Company, 475
Monte Video Gas Company, 879
Morecambe Gas Company, 399
Narborough Gas Company, 393
Neath Water Company, 437
Newcastle and Gateshead Water Company, 355
Newport (Mon.) Gas Company, 310
Newport (Mon.) Water Company, 486
Norwich Water Company, 232
Ottoman Gas Company, 717
Pará Gas Company, 126
Paris Gas Company, 760
Peterborough Gas Company, 348
Petworth Gas Company, 202
Phœnix Gas Company, 563, 916
Plymouth and Stonehouse Gas Company, 984
Pontefract Gas Company, 240
Poole Gas Company, 309
Potsdam Water Company, 311
Preston Gas Company, 126
Purston Gas Company, 486
Rawfold Water Company, 318
Reading Gas Company, 353
Redhill Gas Company, 393
Richmond (Surrey) Gas Company, 400
Rio de Janeiro Gas Company, 643
Ripley Gas Company, 399
Rockhampton (Queensland) Gas Company, 477
San Paulo Gas Company, 869
Scarborough Water Company, 310
Sevenoaks Water Company, 166, 605
Sheffield United Gas Company, 604, 839
Sheffield Water Company, 679
Sheppy Consumers Gas Company, 562
Shoreham Water Company, 710
Shrewsbury Gas Company, 320
Singapore Gas Company, 716
Sleaford Gas Company, 309
South Essex Water Company, 437
South Metropolitan Gas Company, 602, 916
South Shields Gas Company, 394
South Staffordshire Water Company, 354
Southwark and Vauxhall Water Company, 950
Spennymoor Gas Company, 437
Staffordshire Potteries Water Company, 918
Steyning Gas Company, 525
Stockton and Middlesbrough Water Company, 240
Sunderland and South Shields Water Company, 397
Surrey Consumers Gas Company, 565
Swindon Water Company, 201
Swinton and Mexborough Gas Company, 686
Tenterden Gas Company, 399
Thornbury Gas Company, 437
Todmorden Gas Company, 391
Totnes Gas Company, 759
Tottenham and Edmonton Gas Company, 604
Trowbridge Water Company, 486
Truro Water Company, 486
Tynemouth Gas Company, 485, 525
Uckfield Gas Company, 796
Wakefield Gas Company, 353
Weardale and Shildon Water Company, 202,
West Ham Gas Company, 351
Weymouth Consumers Gas Company, 485
Whitby Water Company, 234
Whitworth Vale Gas Company, 240
Wolverhampton Gas Company, 353
Woolwich, Plumstead, and Charlton Consumers Gas Company, 423
Worcester Gas Company, 202
York New Water Company, 310
York United Gas Company, 277

Miscellaneous News.

Aberavon Corporation Gas Accounts, 129
Accident, Extraordinary, at Maryhill, 202
Accident, Fatal, at the Ipswich Gas Works, 235, 314
Accident, Fatal, at the Shoreditch Gas Works, 392
Accident, Fatal, to a Gas Manager, 686
Accident, Singular, through an Escape of Gas, 54
Advertising Dodge, A New, 954
Angell, Mr. Lewis, on London Water Supply, 123
Arrangement and Construction of Gas Works, Mr. H. Ellis Hill on the, 718
Ashton-in-Makerfield Gas Supply, 475
Australian Shale, Analysis of, 313
Automatic Gas Lighting, Mr. St. G. Lane Fox on, 482
Average Meter System, The, in the Parish of St. George, Hanover Square, 348
Aylesbury, Sewage Treatment at, 120
Bagshot Gas Supply, 437
Bangor Water and Gas Works, Proposed Purchase of the, 91
Barbadoes, Gas Affairs in, 262
Barbadoes, Gas Lighting in, 844
Barff, Professor, on Coal and its Components, 54, 97
Barton and Eccles Gas Supply, 96
Batley Corporation Gas Works, Visit to the, 726
Benzol, Luminosity of, when Burnt with Non-Luminous Combustible Gases, 167
Beverley Gas Supply, 320, 485
Bideford Public Lighting, 226
Birmingham Corporation Gas Department, 193
Birmingham Corporation Gas Accounts, 388, 526
Birmingham Gas Apparatus Exhibition, 631
Birmingham Gas Arbitrations, 86
Birmingham Gas, Mr. T. Jackson's Reports on the Quality of the, 46, 202, 359, 592, 719, 878
Bischof's Spongy Iron Filters, 359
Blackburn, Gas Affairs at, 390
Bolton Corporation Gas Department, 950, 987
Boring for Coal in Kent, 313
Bradford Corporation Water Bill, 167
Bridgwater Water Supply, 686
Brighton Water Supply, 320
Briton Ferry Gas Works, 686
Burnley Corporation Gas Supply, 359, 512
Bursting of a Filter Pond near Newcastle, 54
Cambridge, Quality of the Gas supplied to, 807
Cambridge, The Water Supply of, 918
Carburetted Hydrogen and Oxyhydrogen Gas, Stephan's Improvements in the Manufacture of, 839
Cast and Wrought Iron Water Piping, 954
Causes of Gas Explosions, 711
Chatto, Mr. J., on the Failure of the Gasholder Tank at Middlesbrough, 18
Chorley, Security for Gas Rates at, 606
Christchurch (New Zealand) Water Supply, 881
Clackton-on-Sea Water Supply, 987
Coal and its Components, Professor Barff on, 54, 97
Coal Cleansing, 686
Cockermouth and Workington Water Works, 726
Colwyn Gas and Water Supply, 437
Comparative Illuminating Effects of Coal Gas, Spermaceti, and Colza Oil, Mr. R. Briggs on the, 986
Compulsory Purchase of Water Works, The, 719
Consumption of Gas in London, 262
Co-operative Sanitation, 131
Cost of Gas in New Jersey (U.S.), 399
Darlington Corporation Gas Supply, 54
Darlington Corporation Gas Works, Extension of the, 479
Darwen Gas and Water Works, 686
Davis, Mr. S. W., on a New Method of Producing Cheap Heating Gas for Domestic and Manufacturing Purposes, 680
Death of Mr. W. Browning, 343
Death of Mr. T. Bush, 592
Death of Mr. J. Z. Kay, 631
Death of Mr. J. Rofe, 954
Death of Mr. T. Sykes, 343
Death of Mr. W. C. Watson, 763
Death of Mr. W. H. Whiffen, 869
Death through Inhaling Coal Gas, 343
Direct Acting Pumps, Mr. H. Davey on, 606
Discovery of Gas Coal in New Zealand, 686
Dorchester, Waste of Water at, 807
Drainage of Villages, The, 486
Droitwich Gas Works, Purchase of the, 686
Dundee, Suffocation by Gas at, 167
Dynamo-Electric Apparatus, Dr. Higgs on Some Recent Improvements in, 165
East Brent Water Supply, 399
Economical Use of Coal Gas, Mr. S. Hunter on the, 17, 200
Edinburgh Water Supply, 988
Electricity in War, 359
Electric Lamp Lighting and Extinguishing, Mr. Fox's Apparatus for, 18
Electric Lighting, Extract from *The Times* on, 685
Electric Light, The, at Dublin, 320
Embezzlement by the Secretary of the Dorking Water Company, 562
English Coal Mining, 882
Ennis Water Works, 228
Epsom and Ewell Gas Company, The, 881
Eupion Fuel and Gas Company, The, 647
Evans and Sugg's, Messrs., Patent for Sulphur Purification, 720
Exeter Water Supply, 17, 92
Exhibition of Gas Apparatus at Birmingham, 631
Exhibition of Gas Apparatus at Stockton, 648
Explosions of Gas, 88, 93, 130, 167, 201, 202, 308, 475
Explosions in Coal Mines, Mr. T. Wills on, 304
Failure of the Gasholder Tank at Middlesbrough, Mr. J. Chatto on the, 18
Fenton Gas Works, Sale of the, 92
Fire at the Clippens Oil Works, 562
Fires in London, 202
Fittings on Hire at Sheerness, 318
Flexible Water Pipes at Wakefield, 524
Fox, Mr. St. G. Lane, on Automatic Gas Lighting, 482, 918
Fox's Apparatus for Lamp Lighting and Extinguishing by Electricity, 18
Frankland's, Dr., Analysis of Metropolitan Waters for 1877, 522
Fuel at Odessa, 54
Gas Analysis, 279
Gas Burner Man, The, 318
Gas Companies Accounts, 954
Gas Explosions, 91, 201
Gas Wells in Kansas, 807
Glasgow Corporation Gas *Employés* Entertainment, 344
Glasgow Water Supply—Dr. Mills's Annual Report on Loch Katrine Water, 646
Glasgow Water Supply—Reduction in Consumption, 167
Godier, Mr. J., on Municipal Finance, 92
Hailsham, Drainage and Water Supply of, 24
Halifax Corporation Gas Works, 96
Hamburg Gas Works, 359
Hanley Sewage Farm, 684
Harrogate Gas Company, 359
Hastings Public Lighting, 202
Heating a City by Steam, 525

Heating Gas for Domestic and Manufacturing Purposes, Mr. S.W. Davies on a New Method of Producing Cheap, 680
Hereford Corporation Gas Supply, 311, 479
Hertford Sewage, 869
Highbridge Gas Works, 882
Hill, Mr. H. Ellis, on the Arrangement and Construction of Gas Works, 718
Hislop's Improved Process of Regenerating the Lime Used in the Purification of Coal Gas, 236
Horsham Water Supply, 918
Hoylake and West Kirby Gas and Water Supply, 320
Hull Gas Supply, Messrs. Baines's Reports on the, 166, 239, 343, 399, 472, 606, 647, 759, 832, 918
Hull Water Supply, 167, 318
Hunter, Mr. S., on the Economical Use of Coal Gas, 17, 200
Hydraulic Lift for Purifier Covers, 487
Ilkeston Gas Supply—Local Government Board Inquiry, 478
Ilkeston Gas Works, Transfer of the, 566
Ilkeston Water Supply, 202, 918
Illumination of the Tay Bridge, 54
Institution of Civil Engineers, 127, 165, 552, 606, 763, 834, 881
Inverness Gas Works, Proposed Extensions at the, 21
Ipswich Gas Supply, 525
Ipswich Gas Works, Fatal Accident at the, 235, 314
Kidsgrove Gas Works, 47
Kirby Moorside Water Supply, 359
Kirkintilloch, Adoption of the Burghs Gas Supply (Scotland) Act at, 202
Lanarkshire Coal Trade, The, 398
Landing and Storeage of Petroleum, 882
Leeds Corporation Gas Supply, 721
Leek, Gas Supply of, 165
Leek, Local Government Board Inquiry at, 321
Leicester New Gas Works, 524
Leith, Adoption of the Sales of Gas Act at, 279
Lighting a Colliery with Gas, 320
Lighting and Heating Agents, 646
Lighting by Electricity—Dr. C. W. Siemens's Lecture, 167, 481
Lighting by Electricity—Translation from *Journal des Usines à Gaz*, 724
Lighting by Electricity—Translation from *Le Gaz*, 645
Lighting Public Lamps by Elecricity, 520, 807, 918
Liquefaction of Nitrogen and Hydrogen, 121
Liquefaction of Oxygen, 93
Liverpool, Reduction in the Waste of Water at, 237
Liverpool, Water Supply of, 477, 487, 511
Local Government Board Inquiries, 96, 131, 200, 202, 321, 478
Loch Katrine Water, Dr. Mills's Annual Report on, 646
London Water Supply, Mr. Lewis Angell on, 123
Louisville (U.S.) Water Works, 96
Lower Gornal Gas Works, Proposed Transfer of the, 475
Luminosity of Benzol when Burnt with Non-Luminous Combustible Gases, 167
Maidstone Gas Supply, 201
Maldon Gas Company, The, and the Town Council, 791
Manchester Corporation Water Supply, 91, 163, 355, 917
Manchester District Institution of Gas Engineers, 357, 881
Maryhill, Extraordinary Accident at, 202
Melbourne Gas Companies, Amalgamation of the, 23
Metropolis Gas Supply—
  Appointment of a New Gas Examiner, 352
  Average Meter System in the Parish of St. George, Hanover Square, 348
  Camberwell Vestry, 600
  Chelsea Vestry, 52, 230, 916
  Chief Gas Examiner's Reports, Abstracts of the, 89, 600
  Consumption of Gas in London, 262
  Hackney District Board, 89
  Lambeth Vestry, 122
  Metropolitan Board of Works, 51, 198, 271, 387, 475
  Public Lighting in the City of London, 520
  Stevenson's, Dr., Reports on the Gas Supplied to St. Pancras, 89, 230, 387, 796, 948
  Whitmore's, Dr., Reports on the Gas Supplied to Marylebone, 89, 271, 475, 642, 796
Metropolis Water Supply—
  Bermondsey Vestry, 308
  Bethnal Green Vestry, 433
  Bolton's, Major, Reports, 308, 475, 679, 837, 984
  City of London Court of Sewers, 387
  City of London Water Supply, 522
  Deputation from the Vestries and Local Boards to the President of the Local Government Board, 387
  Deputation from the Water Companies to the Home Secretary, 600
  Deputation from the Water Companies to the President of the Local Government Board, 348
  Frankland's, Dr., Analysis of Metropolitan Waters for 1877, 522
  Frankland's, Dr., Monthly Reports, 90, 273, 434, 643, 796, 948
  Islington Vestry, 387
  Lambeth Vestry, 198, 271
Metropolis Water Supply—
  Marylebone Vestry, 90, 198
  Medical Officers of Health, Monthly Returns of the, 52, 198, 388, 522, 716, 916
  Metropolis Water Supply Bill, 122, 162, 198, 231, 433, 837
  Metropolis Water Works (Purchase) Bill—Reasons against the Second Reading, 521
  Metropolitan Association of Medical Officers of Health, 122
  Metropolitan Board of Works, 90, 231, 272, 521, 642, 757
  Poplar District Board, 522
  Public Meetings in Opposition to the Metropolitan Board Schemes, 387, 433, 522
  Registrar-General's, The, Monthly Returns, 90, 272, 434, 643, 796, 949
  South London Consumers Grievances, 272
  St. George-the-Martyr Vestry, 198
  St. Pancras Vestry, 163, 232, 272, 521, 796
  Strand District Board, 163
  Uxbridge Local Board, 272
  Whitechapel District Board, 475
  Whitmore's, Dr., Reports on the Water Supplied to Marylebone, 90, 273, 475, 643, 796
Metropolitan Sewage, 96
Middlesbrough Gasholder Tank, Mr. J. Chatto on the Failure of the, 18
Middleton, New Gas Works at, 985
Midland Association of Gas Managers, 96, 127
Milton-next-Sittingbourne Gas Supply, 881
Moving Town, A, 989
Municipal Finance, Mr. J. Godier on, 92
National Water Supply, 273, 524
Newbury Water Works, 719
Newcastle-on-Tyne, Mr. J. Pattinson's Reports on the Quality of the Gas Supplied to, 54, 399, 606, 807, 881
New Compounds from Coal Gas, Mr. Lewis Thompson on, 484
Newport (Isle of Wight), Gas Meter Testing at, 437
Newport (Mon.) Gas Works Benefit Society, 240
New York Water Supply, 129
North of England Gas Managers Association (Meeting at Newcastle)—
  Opening Address, by Mr. W. J. Warner, 764
  Papers Read—
  On Waste in Gas Works, by Mr. J. Hepworth, 765
  Observations on the Electric Light as applied to Workshops, &c., by Mr. W. Ford, 765
  Improvements in the Manufacture of Portland Cement, by Mr. Watson, 798
  On Condensation, by Mr. R. Smith, 799
Nottingham Gas Works, Explosion at the, 130
Nottingham, Local Government Board Inquiry at, 96
Old Hampstead Water Works, 520
Ormskirk, Price of Gas at, 320
Paisley Corporation Gas Works, Extensions at the, 52
Paisley Gas Works *Employés Soirée*, 167
Paris Gas Company, Annual Report of the, 760
Paris Universal International Exhibition—British Exhibitors, 949
Parry, Mr. J., on the Use of Water as a Motive Power, 804
Partick, Hillhead, and Maryhill Gas Works *Employés Soirée*, 167
Pateley Bridge Water Supply, 54
Phœnix Gas Company's New Holder, 917, 986
Plymouth Gas Company, 525
Pollution of Rivers Act, The, 526, 881
Pollution of Rivers in Scotland, The, 90
Pollution of the River Wye, 486
Portland Cement Concrete, 130
Presentation to Mr. R. Bridge, 525
Presentation to Mr. J. Chester, 383
Presentation to Mr. C. Farrand, 17
Presentation to Mr. S. E. Stevenson, 193
Preston Gas Company's Accounts, 672
Price of English and American Coal, 400
Price of Gas in Lancashire and Yorkshire, 86
Prince of Wales, The, and the Water Supply of Towns, 273
Proposed New Association of Gas Managers, 984
Pure Water, 89
Radiometer, The Theory of the, 96
Ramsgate Gas and Water Works, The Transfer of the, to the Local Board, 162, 193, 279
Rare Opening, A, 487
Reading, Gas Affairs at, 763
Reductions in the Price of Gas, 202, 240, 321, 359, 383, 437, 485, 525, 672, 915, 987
Regenerating the Lime Used in the Purification of Coal Gas, Hislop's Improved Process of, 236
Richmond (Surrey) Public Lighting, 397
Richmond (Surrey) Vestry and their Water Supply Scheme, 552
Richmond (Yorks) Corporation Gas Works, 485
Roads and Bridges (Scotland) Bill, 359
Road Water Supply on the Meter System, 279
Rochdale Corporation Gas Accounts, 797
Rochdale Corporation Gas Works, 672, 985
Rochdale Corporation Water Works, 766
Rotherham and its Engineering Troubles, 800
Royal United Service Institution, 438
Saffron Walden Gas and Water Works, Purchase of the, 202
Sales of Gas Act, Adoption of the, at Leith, 279
Sales of Gas and Water Shares, 24, 49, 130, 240, 359, 399, 472, 567, 807, 844, 881, 987
Sanitary Aspects of Artificial Light, 985
Scarborough Water Supply, 120, 202, 234
Sheerness, Gas Fittings on Hire at, 318
Sheerness, Public Lighting at, 240
Sheerness, Sewerage and Water Supply of, 486
Shoreham Gas Supply, 486
Siemens, Dr. C. W., on Lighting by Electricity, 167, 481
Skegness Gas Supply, 399
Skelton's Catoptric Lamps, 96
Société Technique de l'Industrie du Gaz en France, 791
Society of Engineers, 315, 437, 918
Southern District Association of Gas Engineers, 317, 791
Southport, Fatal Gas Explosion at, 93
Spice's, Mr. R. P., Inaugural Address to the Society of Engineers, 315
Spontaneous Combustion of Coal, 606
Stafford Gas-Works, Purchase of the, 388, 807
Stealing Iron from the Halifax Corporation Gas Works, 882
Stephan's Improvements in the Manufacture of Carburetted Hydrogen and Oxyhydrogen Gas, 839
St. Louis (U. S.) Water Supply, 54
Stockton and Middlesbrough Water Works, The Purchase of the, 758
Stockton Corporation Gas Works, 918
Stockton Gas Apparatus Exhibition, 648
Stoke Gas Works, Proposed Purchase of the, 168
Strike of Gas Consumers at Barcelona, 726
Suffocation by Gas at Dundee, 167
Sulphur Purification, Messrs. Evans and Sugg's Patent for, 720
Sulphur, The Effect of, on Cotton Goods, 877
Thompson, Mr. Lewis, on New Compounds from Coal Gas, 484
Town Sewage and House Drainage, 524
Tunbridge Wells New Gas Works, 680
Union Water Meter Company, The, 200
United States, The Water Supply of the, 484
Use of Water as a Motive Power, Mr. J. Parry on the, 804
Walsall Gas Supply, 394
Walsall Sewerage, 512, 647
Walton-on-the-Naze Gas and Water Supply, 798
Water Gas in America, 21, 238, 601, 722
Water Power at Hull, 486
Water Purification, Mr. W. J. Pearse on, 437
Water Supply of South Coast Watering Places, 320
Water Supply of Towns, The Prince of Wales and the, 273
Watford Water Supply, 840
Waverley Association of Gas Managers, 605
West Derby Sewage Farm, 92
West of Scotland Association of Gas Managers, (Meeting at Paisley)—
  Adoption of Minutes, Election of Office Bearers, Arrears of Subscriptions, &c., 801
  Address by the President, Mr. J. M'Gilchrist, 801
  Vote of Thanks, &c., 842
  Papers Read—
  On the Influences of Aqueous and other Vapours on Illuminating Gas, by Mr. H. Aitken, 802
  On a Non-Tilting Gas Meter, by Mr. S. Dalziel, 840
  Steel's Patent Graduatory Gas Scrubbing, Condensing, and Purifying Apparatus, by Mr. D. M. Nelson, 842
Widnes Gas and Water Supply, 321
Wigan Corporation Gas Accounts, 680
Wigan Corporation Gas Supply, 24
Wigan Corporation, The, and the Standish Local Board, 313
Wimbledon Public Lighting, 796
Wincanton Gas Supply, 485
Wokingham Water Supply, 54, 987
Woodhouse Gas Supply, 486
Worcester Gas Works, Proposed Purchase of the, 233
Workington Water Works, Explosion at the, 437
Yan Yean Water Works, 122
York United Gas Company's Bill and the Town Council, 198, 235, 314

Trade Reports, 24, 53, 95, 129, 165, 200, 239, 278, 319, 358, 398, 436, 485, 525, 605, 647, 685, 726, 806, 843, 881, 917, 953, 986

Share List of Metropolitan Gas and Water Companies, 25, 203, 360, 526, 727

Register of Patents.

Ahrbecker, H. C.—Fluid Meters, 487
Alley, S.—Sluice and other Valves, 488
Anderson, C.—Connecting Gas and Water Pipes, 56
Anderson, R. C.—Valves, 168
Balcon, W.—Lamp Lighters, 439
Baldwin and Bailey—Pressure Gauges, 131
Barnes, J.—Water or other Fluid Meters and Motors, 488
Beck, W. H.—Furnaces for the Manufacture of Gas, &c., 55
Bennet and Bostock—Pumps, 989
Ber, O.—Shutting Gas, Steam, and Water Cocks, 132
Blundell, Blundell, and Holmes—Pumps, 322
Boulton, M. P. W.—Producing Heat by the Combustion of Inflammable Gases or Vapours, 992
Brook and Wilson—Manufacture of Gas, 483

Brotherhood, P.—Compressing Air or other Elastic Fluid, 58
Buchholz, J. A. A.—Manufacture of Gas, 992
Burden and Nowell—Meters for Water, &c., 489
Cathels, E. S.—Purification of Gas, 57
Chatwin, J.—Gas Burners, 132
Chatwin, T.—Screw Wrenches or Spanners and Gas Grips, 989
Cherry, W. P. and C. E.—Manufacture of Gas, 955
Clark, A. M.—
Purification of Gas, 168
Water Meters, 56
Clayton, L. and L.—Punching Metal Plates for Gasholder Top Sheets, 989
Collet and Denans—Distributing, Purifying, and Regulating the Flow of Liquids, 321
Collinge and Paterson—Purifying Coal Gas, 956
Cotterell, F. J.—Sliding Gaseliers, 989
Davey, H.—Compound Pumping Engines, 56
Dennis, T. H. P.—Water Waste Preventers, 992
Dronier, P.—Lighting Gas by Electricity, 956
Duckett, J. D.—Cistern and Water Waste Preventer, 131
Fitzmaurice, A.—Pumps, 168
Foulis, W.—
Drawing Retorts, 955
Gas Governors, 202
Fox, St. G. L.—Lighting Gas Lamps by Electricity, 57
Frost, J.—Purifying Sewage and Foul Air, 132
Gent, J. S.—Manufacture of Gas Burners, 606
Gent, P.—Gas Stoves, 954
Gidney, J. W.—Carburetting Air or Gas, 168
Gill, J.—Gas Stoves, 955
Giroud, H.—Regulators for Gas Burners, 956
Godfrey and Howson—Gas Furnaces, 321
Goedicke, F. W. E. R.—Distributing Sewage, 55
Green, C. H.—Gas Stoves, 990
Green, H.—Gas Scrubbers, 487
Haddan, H. J.—Cutting Pipes, Columns, &c., 989
Harris, R.—Purification of Gas, 202
Harrison, C. W.—Impregnating Atmospheric Air with Inflammable Vapours, 957
Hazlehurst, G. S.—Pumping Liquids, Condensing Gases, &c., 55
Henderson, A. G.—Gas Meters, 56.
Horton, H.—Globe Holders for Gas Lamps, 202
Howard, Wilson, and Kingdom—Controlling and Arresting the Flow of Fluids, 488
Hughes, R. H.—Water Waste Indicators, 487
Hunt, B.—Pipe Joints, 957
Hunt, C.—Gas Meters, 990
Jackson, W. M.—Gas Stoves, 992
Johnson, J. H.—
Cocks, 56
Obtaining Motive Power; Applicable to the Condensation and Rarefication of Gases and Vapours, 322
Treating Iron Residues obtained in Purifying Coal Gas, &c., 202
Johnson, S.—Gas Meters, 955
Johnson and Burton—Gas Meters, 992
Kelen, L. van der—Gas Stoves, 954
Kennedy, T.—Water Meters, 956
King, J. T.—Chandeliers, Brackets, &c., 489
Kirkham, Hulett, and Chandler—Purification of Gas, 989
Lake, W. R.—
Adjusting Wrenches and Spanners, 55
Pressure Indicators for Taking Continuous Diagrams, 606
Leoni, S.—Boilers to be Heated by Gas, 489
Linford, C.—Gas Engines, 56
Livesey, G. T.—Purifying Gas, 991
Low, W.—Taps or Cocks, 956
Macartney, G.—Couplings for Pipes, &c., 57
Magniat, H. L.—Gas and Water Tight Joints, 57
Martin, J. R.—Rotary Pumps and Engines, 487
Mather, W.—Raising Water from Wells, 989
Mathieson, C. F.—Manufacture of Gas, 954
Messenger, T. G.—Valves for the Circulation of Water, Gas, or other Fluids, 57
Milnes, J.—Plug Taps and Valves, 992
M'Kendrick, Ball, and Watson — Fluid Motors, Pumps, or Meters, 487
M'Lennan, W.—Pumps, 57
M'Manus, H.—Gas Governors, 132
Morgan-Brown, W.—Pumps, 132
Nawrocki, G. W. von—Water Meters, 989
Newman and Duesbury—Transmitting Gas from the Retorts to the Hydraulic Mains, 990
Newton, A. V.—Liquid Meters, 55
O'Neill, A.—
Constructing and Laying Pipes for Gas, Water, &c., 954
Pipe Joints, 607
Othon, L. P.—Pumps, 606
Page, W.—Valves, Taps, and Cocks, 956
Parsons, H.—Pipe Joints, 57
Peebles, D. B.—Gas Govenors, 131
Penning, J. R.—Pressure Gauges, 488
Peyrouse, L. A. L. E. P. de la—Manufacture of Gas, 58
Pope, J.—Taps or Cocks, 989
Preston, Prestige, and Preston—
Pumps, 56
Regulating Water Supply to Closets, 57
Redfern, G. F.—Gas Motor Engines, &c., 132
Redwood, T. B.—Manufactnre of Gas, 55
Reynolds, E.—Centrifugal Pumps and Fans, 488
Rignall, R.—Pipe Tongs, 990
Ritter, F. W.—Cocks or Taps, 168
Robertson, G.—Apparatus for Exhausting Gas, &c., 57
Robinson, C. S.—Gas Burners, 169
Russell and Wilson.—Fastenings for Gas Syphon Boxes, &c., 990
Shand, J.—Hydrants or Fire Cocks, 488
Sieh and Schwarz—Gas Regulators, 132
Sievier, J. C. H.—Manufacture of Gas, 489
Simcox, E.—Taps and Cocks, 606
Slater, J. W.—Deodorizing and Purifying Sewage, 57
Smith, W.—Fluid Meters, 57
Steel, J.—
Purifying and Condensing Gas, and Collecting Ammonia therefrom, 488
Purifying Gas, 57
Storer and Pugh—Retort Lid Fastenings, 955
Stove, A. S.—Manufacture of Gas, 992
Tassie, P.—Closing the Mouthpieces of Gas Retorts, 957
Thomas, J. J.—Separating Liquids, 58
Tongue, J.G.—Obtaining Colouring Matter from Coal, 956
Turner, A. D.—Burning Hydrocarbons, 487
Vandendriesche, A. E.—Gas Regulators, 488
Walker, J.— Fluid Meters, 489
Walker, W.—Rings for Tight Joints, 990
Wallace and Claus—Purification of Gas and Utilization of Bye Products, &c., 988
Webber, C. E.—Gas Generators, 169
Westinghouse, G.—Lighting Railway Carriages, 606
Wightman and Alley—Water Meters, 989
Wildy, W. L.—Cocks or Valves for Gas Fittings, 487
Wilkins, S. B.—Ball Cock Hydrants, 202
Wilson and Leach—Ejectors for Liquids, 55
Wirth, F.—Treating Spent Oxides of Iron to obtain Sulphur and Prussian Blue, 321
Wolstenholme, J.—Pumps, 488
Young, W.—
Carburetting Air and Gases, 58
Manufacture of Illuminating Gas, 955
Young, Neilson, and Young—Destructive Distillation of Bituminous Substances, 487

Adjusting Wrenches and Spanners—Lake, W. R., 55
Ball Cock Hydrants—Wilkins, S. B., 202
Boilers to be Heated by Gas—Leoni, S., 489
Burning Hydrocarbons—Turner, A. D., 487
Carburetting Air or Gas—
Gidney, J. W., 168
Young, W., 58
Chandeliers, Brackets, &c.—King, J. T., 489
Cistern and Water Waste Preventers—Duckett, J. D., 131
Closing the Mouthpieces of Gas Retorts—Tassie, P., 957
Cocks—Johnson, J. H., 56
Cocks or Taps—Ritter, F. W., 168
Cocks or Valves for Gas Fittings—Wildy, W. L., 487
Compressing Air or other Elastic Fluid—Brotherhood, P., 58
Connecting Gas or Water Pipes—Anderson, C., 56
Constructing and Laying Pipes for Gas, Water, &c.—O'Neill, A., 954
Controlling and Arresting the Flow of Fluids—Howard, Wilson, and Kingdom, 488
Couplings for Pipes, &c.—Macartney, G., 57
Cutting Pipes, Columns, &c.—Haddan, H. J., 989
Deodorizing and Purifying Sewage—Slater, J. W., 57
Destructive Distillation of Bituminous Substances—Young, Neilson, and Young, 487
Distributing, Purifying, and Regulating the Flow of Liquids—Collet and Denans, 321
Distributing Sewage—Goedicke, F. W. E. R., 55
Drawing Retorts—Foulis, W., 955
Ejectors for Liquids—Wilson and Leach, 55
Exhausting Gas, &c.—Robertson, G., 57
Fastenings for Gas Syphon Boxes, &c.—Russell and Wilson, 990
Fluid Meters—
Ahrbecker, H. C., 487
Smith, W., 57
Walker, J., 489
Fluid Motors, Pumps, or Meters—M'Kendrick, Ball, and Watson, 487
Furnaces for the Manufacture of Gas, &c.—Beck, W. H., 55
Gas and Water Tight Joints—Magniat, H. L., 57
Gas Burners—
Chatwin, J., 132
Robinson, C. S., 169
Gas Engines—Linford, C., 56
Gas Furnaces—Godfrey and Howson, 321
Gas Generators—Webber, C. E., 169
Gas Governors—
Foulis, W., 202
M'Manus, H., 132
Peebles, D. B., 131
Gas Meters—
Henderson, A. G., 56
Hunt, C., 990
Johnson, S., 955
Johnson and Burton, 992
Gas Motor Engines, &c.—Refern, G. F., 132
Gas Regulators—
Sieh and Schwartz, 132
Vandendriesche, A. E., 488
Gas Scrubbers—Green, H., 487
Gas Stoves—
Gent, P., 954
Gill, J., 955
Green, C. H., 990
Gas Stoves—
Jackson, W. M., 992
Kelen, L. van der, 954
Globe Holder for Gas Lamps—Horton, H., 202
Hydrants or Fire Cocks—Shand, J., 488
Impregnating Atmospheric Air with Inflammable Vapours—Harrison, C. W., 957
Lamp Lighters—Balcon, W., 489
Lighting Gas by Electricity—Dronier, P., 956
Lighting Gas Lamps by Electricity—Fox, St. G. L., 57
Lighting Railway Carriages—Westinghouse, G., 606
Liquid Meters—Newton, A. V., 55
Manufacture of Gas—
Brook and Wilson, 488
Buchholz, J. A. A., 992
Cherry, W. P. and C. E., 955
Mathieson, C. F., 954
Peyrouse, L. A. L. E. P. de la, 58
Redwood, T. B., 55
Sievier, J. C. H., 489
Stove, A. S., 992
Young, W., 955
Manufacture of Gas Burners—Gent, J. S., 606
Meters for Water, &c.—Burden and Nowell, 489
Obtaining Colouring Matter from Coal—Tongue, J. G., 956
Obtaining Motive Power, Applicable to the Condensation and Rarefication of Gases and Vapours—Johnson, J. H., 322
Pipe Joints—
Hunt, B., 957
O'Neill, A., 607
Parsons, H., 57
Pipe Tongs—Rignall, R., 990
Plug Taps and Valves—Milnes, J., 992
Pressure Gauges—
Baldwin and Bailey, 131
Penning, J. R., 488
Pressure Indicators for Taking Continuous Diagrams—Lake, W. R., 606
Producing Heat by the Combustion of Inflammable Gases or Vapours—Boulton, M. P. W., 992
Pumping Engines—Davey, H., 56
Pumping Liquids, Condensing Gases, &c.—Hazlehurst, G. S., 55
Pumps—
Bennet and Bostock, 989
Blundell, Blundell, and Holmes, 322
Fitzmaurice, A., 168
M'Lennan, W., 57
Morgan-Brown, W., 132
Othon, L. P., 606
Preston, Prestige, and Preston, 56
Wolstenholme, J., 488
Pumps and Engines—Martin, J. R., 487
Pumps and Fans—Reynolds, E., 488
Punching Metal Plates of Gasholder Top Sheets—Clayton, L. and L., 989
Purification of Gas—
Cathels, E. S., 57
Clark, A. M., 168
Harris, R., 202
Kirkham, Hulett, and Chandler, 989
Purification of Gas and Utilization of Bye Products, &c.—Wallace and Claus, 988
Purifying and Condensing Gas and Collecting Ammonia therefrom—Steel, J., 488
Purifying Gas—
Collinge and Paterson, 956
Livesey, G. T., 991
Steel, J., 57
Purifying Sewage and Foul Water—Frost, J., 132
Raising Water from Wells—Mather, W., 989
Regulating Water Supply to Closets—Preston, Prestige, and Preston, 57
Regulators for Gas Burners—Giroud, H., 956
Retort Lid Fastenings—Storer and Pugh, 955
Rings for Tight Joints—Walker, W., 990
Screw Wrenches or Spanners and Gas Grips—Chatwin, T., 989
Separating Liquids—Thomas, J. J., 58
Shutting Gas, Steam, and Water Cocks—Ber, O., 132
Sliding Gaseliers—Cotterell, F. J., 989
Sluice and other Valves—Alley, S., 488
Taps and Cocks—Simcox, E., 606
Taps or Cocks—
Low, W., 956
Pope, J., 989
Transmitting Gas from the Retorts to the Hydraulic Main—Newman and Duesbury, 990
Treating Iron Residues obtained in Purifying Coal Gas, &c.—Johnson, J. H., 202
Treating Spent Oxides of Iron to obtain Sulphur and Prussian Blue—Wirth, F., 321
Valves—Anderson, R. C., 168
Valves for the Circulation of Water, Gas, or other Fluids—Messenger, T. G., 57
Valves or other Fluid Meters and Motors—Barnes, J., 488
Valves, Taps, and Cocks—Page, W., 956
Water Meters—
Clark, A. M., 56
Kennedy, T., 956
Nawrocki, G. W. von, 989
Wightman and Alley, 989
Water Waste Indicators—Hughes, R. H., 487
Water Waste Preventers—Denning, T. H. P., 992

Patent Notices, 58, 97, 132, 169, 202, 240, 322, 359, 400, 438, 489, 526, 567, 607, 648, 686, 807, 844, 882, 918, 957, 992